1 VQE results Aer Estimator (No Shots)

(Full Hamiltonian) Double Well $\Lambda = 8$ COYBLA Max 10K Iterations

Ansatz	Tolerance	Converged runs	Mean iter	VQE min E.	Δ_{min}	VQE median E.	Δ_{median}	Exact	Time
RA r1 rl	1e−01	100/100	63	9.2852e−01	4.3935e−02	1.0941e+00	2.0949e−01	8.8458044387e−01	00h 00m 20s
RA r1 rl	1e−02	100/100	227	8.9354e−01	8.9597e−03	9.0897e−01	2.4392e−02	-	00h 01m 13s
RA r1 rl	1e−03	100/100	526	8.922e−01	7.621e−03	8.9375e−01	9.1679e−03	-	00h 02m 54s
RA r1 rl	1e−04	96/100	1141	8.9219e−01	7.6104e−03	8.9952e−01	1.494e−02	-	00h 09m 19s
RA r1 rl	1e−05	76/100	1472	8.9218e−01	7.6003e−03	9.0549e−01	2.0905e−02	-	00h 15m 44s
RA r1 rl	1e−06	65/100	1770	8.9341e−01	8.8329e−03	8.9342e−01	8.8414e−03	-	00h 17m 51s
RA r1 rl	1e−07	55/100	2483	8.9342e−01	8.841e−03	9.0549e−01	2.0905e−02	-	00h 22m 35s
RA r1 rl	1e−08	53/100	2708	8.9342e−01	8.841e−03	9.0549e−01	2.0905e−02	-	00h 24m 35s
Ansatz	Tolerance	Converged runs	Mean iter	VQE min E.	Δ_{min}	VQE median E.	Δ_{median}	Exact	Time

Table 1